- 1. POPOV, P. I.; BAYEV, K. L.; VORONTSOB-VEL'YAMINOV, B. A.; and RUNITSKIY, R. V.
- 2. USSR (600)
- 4. Physica and Mathematics
- 7. Astronomy, Popov, P. I., Bayev, K. L., Vorontsob-Vel'yaminov, B. A., and Runitskiy, R. V. (Second edition revised, Moscow, Education and Pedagogic Press, 1949). Reviewed by Dobronravich, P. P., Sov, Kniga, No 5, 1950.

9. Report U-3081, 16 Jan 1953, Unclassified.

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"Talks of Scientists. Progress of the Soviet Astronomy," Krasnyi Flot, 16 October 1949.

TRANSLATION AVAILABLE (6 pages), Call No.: 492053, TR-A-396a, 9 Aug. 50

VORONTSOV-VELIAMINOV, B. A.

"Astronomy," a textbook for use in the 10th grade of secojdary schools. 212 pages, 133 ill., Kirghiz State Publishing House, Frunze, 1949

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"The Structure of the Universe," 2nd enlarged edition, 48 pages with illus., State Publishing House of Juvenile Literature, Moscow/Leningrad, 1949.

"Collection of Problems and Exercises in Astronomy," (Sbornik zadach i uprazhneniy po astronomiy) 2nd Edition, Moscow-Leningrad, 1949.

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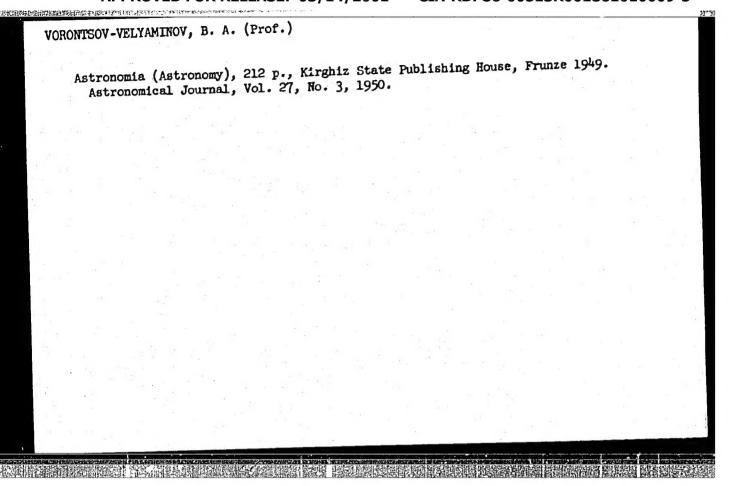
"The World of Stars," Natural Science Library for Eupils, State Publishers of Children's Literature, Moscow/Leningrad, 1950, 72 pp with drawings, 200,000 copies, 90 kopeks.

"The Structure of the Universe," All-Union Society for the Propagation of Political and Scientific knowledge, Scientific-Popular Lecture (Collective Farm Series), Republic Lecture Bureau, Kazan', 1950, 16 pp., 1,075 copies, no charge, (in Tatar).

"Annotated Index No. 67 of Astronomical Literature Published in the USSR in April-May 1950." Astronomical Education No. 4, 1950, pp. 268-272.

VORONTSOV-VELIYAMINOV, B. A.

"The Elements of the Universe for Presentation in Physics Lessons in Schools," 44 pages, Pedagogical Library of the Teacher, Publishing House of the Academy of Pedagogical Sciences RSPSR, Moscow, 1950, 10,000 copies.



"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861010009-5

VORONTSOV-VEL YAMINOV, B. A.

PA 164T3

USSR/Astronomy - Star Distribution Hot Giants Galaxy Jul/Aug 50

"Distribution of Hot Giants in the Galaxy," B. A. Vorontsov-Vel'yaminov, State Astr Inst imeni P. K. Shternberg

"Astron Zhur" Vol XXVII, No 4, pp 211-227

Shows that young stars, namely hot giants, are actually included in our galaxy and in others like it, not in a few small-diameter associations (clusters) but in vast stellar clouds in which are density nebulas. Submitted 24 Jan 50.

164T3

VCRCNTSOW*VEL'YANTNOW, B. A.

USSR/Astronomy - Nebulas, Planetary Sep/Oct 50

"System of Planetary Nebulas: Investigation of Type-O Stars, Planetary Nebulas, and New Stars, Report 21," B. A. Vorontsov-Vel'yaminov, State Astr Inst Shternberg

"Astron Zhur" Vol XXVII, No 5, pp 285-301

Employs method of determining distances to planetary nebulas, proposed by author in 1934, to derive improved table of their distances and sizes. Tables include improved values motion and calculations of interstellar absorption of light and influence of nuclear temperatures.

FA 175T2

USSR/Astronomy - Stars

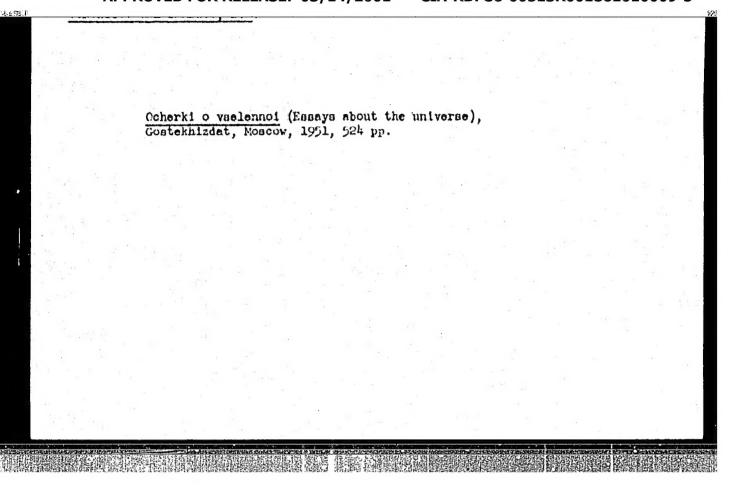
11 Aug 50

"Distribution and Origin of Hot Giants in Our Galaxy and Other Spiral Systems," B. A. Vorontsov-Vel'yaminov

"Dok Ak Nauk SSSR" Vol LXXIII, No 5, pp 911-914

Our galaxy is spiral of "late" type according to many indications, one being abundance in it of hot giants in gaseous nebulas. In "late" spiral systems spiral arms are visible mainly because of stars of 0 and B types and stellar clusters containing such stars. Submitted 18 May 50 by Acad V. G. Fesenkov.

175T2

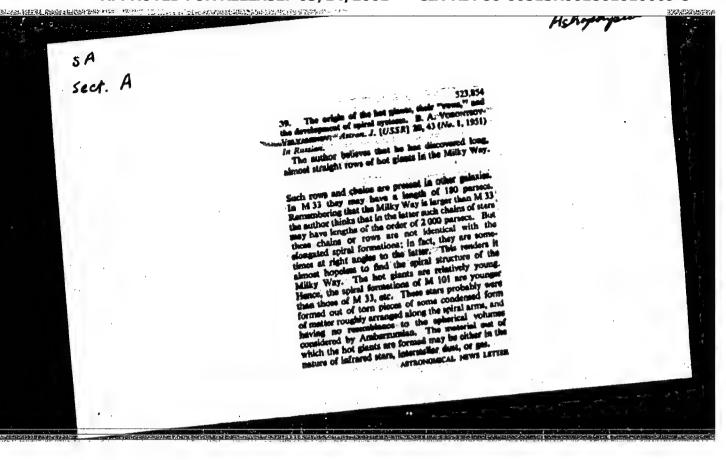


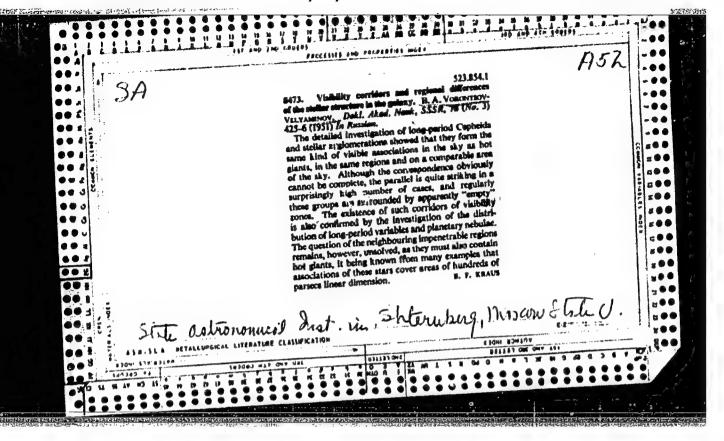
VORONTSOV-VEL'YAMINOV, fnu

Science.

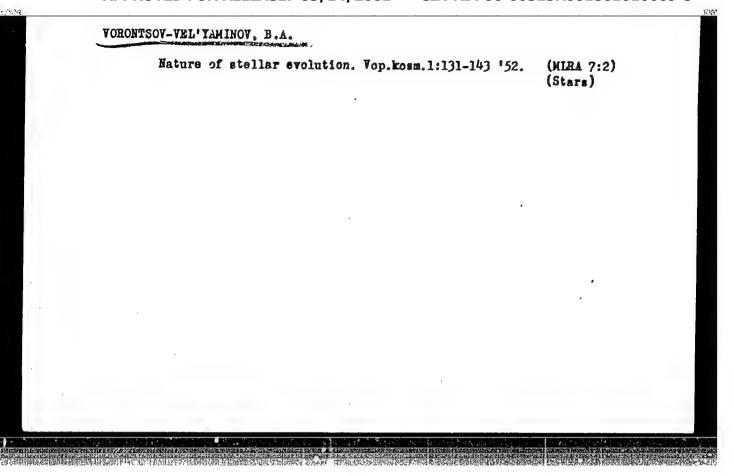
Origin of celestial bodies. (Nauchno-populiarnaia biblioteka soldata). (Moskva), Voennoe izd-vo, 1951.

9. Monthly List of Russian Accessions, Library of Congress, November 19582 Uncl.





VORONTSOV-VEL YAMINOV, B. A.		PA 19217	
	USSR/Astronomy - Galaxy (Contd) Sep. in visibility corridors and in opaque par- inaccurate distribution picture in spiral branches. Suggests study of Galaxy by in- gation of weak 0 and B stars.	USER/Astronomy - Galaxy Sep/Oc "Visibility Corridors, Spiral Branches and N homogeneities in Structure of Galaxy," B. A. Vorontsov-Vel'yaminov, State Astr Inst imeni Shternberg "Astron Zhur" Vol XXVIII, No 5, pp 388-402 Proves existence of visibility corridors by study of spatial distribution of long-period variables, Cepheids, dispersed clusters, sup giants of type A and planetary nebulse. Dis torted effects of O and B stars in perspecti	
1927	19277 Sep/oct 51 parts give ral ral rinvesti-	Sep/Oct 51 anches and Non- claxy, B. A. Inst imeni pp 388-402 pp 388-402 corridors by long-period lusters, super- cebulae. Dis- in perspective	4-1



VORONTSOV_VHL'YAMINOV, B.A., prof., red.; SHVETSOV, M.P., tekhn. red.

[Program of the sourse "astronomy and methods of teaching it in secondary schools;" for physics and methodatics faculties of pedagogical institutes] Programma kursa "Astronomiia s metodikoi prepodavaniia ee v srednei shkole" dlia fiziko-matematicheskikh fakul tetov pedagogicheskikh institutov. Moskva, Izd-vo Akad. pedagog. nauk RSFSR, 1953. 10 p. (MIRA 11:9)

1. Bussia (1917- R.S.F.S.R.) Glavnoye upravleniye podgotovki uchiteley.

(Astronomy-Study and teaching)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861010009-5"

VORONTSOV+VEL' YAMINOV, Boris Aleksandrovich,

1904- New and the newest stars; public lecture Moskva, Izd-vo Znanie, 1953. 30p.
(Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh zn.nii.
Seriia 3, no. 27)

1. Stars, New.

A O MONIZON - AET. AUMINON

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 634 - I

BOOK

Call No.: AF653648

Author: VORONTSOV-VEL'YAMINOV, B. A., Prof.

Full Title: COLLECTED ASTRONOMICAL PROBLEMS AND EXERCISES. 3rd ed. Transliterated Title: Sbornik zadach i uprazhneniy po astronomii.

Izd. 3-e

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of Technical and

Theoretical Literature

Date: 1953 Editorial Staff

No. pp.: 272

No. of copies:

Contributors: Prof. P. P. Parenago, who checked the answers in the first edition, and M. A. Borchev, who checked the complete text

and made corrections.

PURPOSE: To demonstrate practical applications of established theoretical conclusions, and to give the students of universities and secondary schools and understanding of how scientists arrived at and established certain facts in astronomy.

TEXT DATA

Coverage: The text contains the preface to the second edition, in which the author emphasizes the value of the practical illustration of theoretical statements in astronomy. In order to classify the

Sbornik zadach i uprazhneniy po astronomii. Izd. 3-e

AID 634 - I

problems presented in the book he divides them into 28 groups, and subdivides each group into two "concenters". One "concenter" is within reach of secondary students of the 10th grade with the astronomical knowledge given in his textbook for these schools, and the other "concenter" is for students of institutions of higher the necessary formulae. In the last miscellaneous group the author cites several statements from literature and history, in which a the students determine the time of the year, the route of travel them are given at the end of the book (pp. 212-246), 15 tables are text.

No. of References: Several in the text. Facilities: None

2/2

VORONTSOV-VEL YAMINOV B.A.

POPOV, P.I.; Bayev, K.L. [deceased]; VORONTSOV-VEL'YAMINOV, B.A.; KUNITSKIY, R.V.; SHORYGIN, S.A., Fedaktor; TSIRUL'NITSKIY, H.P., tekhnicheskiy redaktor

[Astronomy; textbook for physics-mathematics faculties] Astronomiia. Uchebnik dlia fiziko-matematicheskikh fakul'tetov pedagogicheskikh institutov. Pod obshchei red. P.I.Popova. Izd. 3-e, vnov' perer. Moskva, Gos. uchebnè-pedagog. izd-vo Ministerstva prosveshchenila RSFSR, 1953. 543 p. (MLRA 7:9) (Astronomy)

USSR/Astronomy - Infrared Conserter

VCPCHTSOV-VEL 'YAM'IN, R. A.

Jul 53

"New Works of the Grimean Astrophysical Observatory," P. P. Doirecravin and S. E. Pikel'ner

Priroda, No 7, pp 50-56

Describes the history of the Grimean Observatory at Simeis, from 1900, the date of its origin, to the present. Discusses the works of G. A. Shayn and V. F. Gaze (ratios of numbers of isotores in the atmosphere of stars, and carbon stars); P. F. Shayn (light from stars); P. P. Dobrogravin (spectra); V. B. Nikonov, associate at Fulkovo Observatory, A. A. Kulinyak, and V. T. Krasovskiy (study of Stellar infrared rays by means of electron-optical converters); I. S. Sklovskiy (theroretical radioastronomy); V. A. Ambartsumyan (red giants); Prof B. A. Vorontsov-Vellyasin (interstellar gas blown from the surface of hot stars); G. A. Fonin and A. B. Severn (spectroheliograph designs); A. B. Gillvarg (light filters); E. R. Fustel (chromospheric cutbursts); D. D. Faksutov, Corr-Nem Acad Sci USSR (studies with menicus telescope-reflector system and coronograph).

258T56

USSR/Astronomy - Galaxy Jan/Feb 53
"Spiral Structure of the Galaxy," B.A. VorontsovVel'yaminov, State Astron Inst imeni Shternberg
"Astron Zhur" Vol 30, No 1, pp 37-49
Although only 2 spiral arms have been established in the galaxy, author believes there are no less than three. Studies of optical structure of the galaxy agree with those of other galaxies, but it is not clear whether optical conclusions agree with results of radio astronomy. Received 11 Nov 52.

VORONTSOV-VEL'YAMINOV, B. A.

Jul/Aug 53

USSR/Astronomy - Galaxy

"Clouds of Hot Giants and Clouds of the Milky Way," B. A. Vorontsov-Vel'yaminov, State Astron Inst im Shternberg

Astr Zhur, Vol 30, No 4, pp 394-413

Describes visible clouds of supergiants in spiral branches of our Galaxy and their coincidence with visible clouds of faint stars in the Milky Way. Estimates their mean distances and the corresponding magnitudes in the cross sections of corridors of visibility. These comparisons prove the importance of existence of visibility corridors in the Galaxy. Received 9 Mar 53.

262T28

APPROVED FOR RELEASE: 03/14/2001			CIA-RDP00-00313R001801010009-3		
	VORONTSOV-VEL'YAMINOV, B.A.				
	First Russian star nap. As	tron. zhur	. 30 no.5:552-556 S=0 153.	(MLRA 6:11) (Stars)	
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VORONTSOV-VEL'YAMINOV, B.A.; MANOVA, G.A.

Visible condensations of variable stars of the Mira Ceti type.

astron.tsir. no.139:5-6 Je '53. (MLRA 7:1)

(Stars, Variable)

VOROHTSOV-VELLYANTICOV.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetakaya Kultura, Hoscov, No. 22-40, 20 Feb - 3 Apr 1954)

Hame

Title of work

Nominated by

Vorontsov-Vel'yaminov, B. A. "Notes on the Universe" (popular scientific work, imeni M. V. Lomonosov 2d edition)

Moscow State University

50: W-30604, 7 July 1954

VORONTSOV-VEL'YAMINOV, B.A., professor; MEZENTSEV, V.A., redaktor;

[Origin of celestial bodies] Preiskhozhdenie nebesnykh tel. Izd. 2-e, perer. Moskva, Ges. izd-ve tekhnike-teoret. lit-ry, 1954. p. 30. (Nauchno-prosvetitel'naia biblieteka, no. 2). (MIRA 8:10) (Solar system)

 VORONTSOV-VEL'YAMIHOV, B.A., professor; SHISHAKOV, V.A., kandidat pedagogicheskikh nauk, redaktor; TSIRUL'NITSKIY, N.P., tekhnicheskiy redaktor.

[Astronemy; textbook for the class 10 of secondary school] Astronemia; uchebnik dlia 10-go klassa srednei shkely. Isd. 8. Meskva, Ges.uchebne-pedageg. isd-vo Kinisterstva prosveshcheniia RSFSR, 1954. 175 p.

(Astronemy) (MIRA 8:5)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861010009-5

VORONTSOV-VELYAMINOV, B.A.

Photometric structure of a typical comet (Comet 1942g) Biul.Abast.
astrofix.obser. no.17:49-73 '54. (MIRA 8:10)

(Comets--1942)

VORONTEOV-VEL YAMINOV. B. A.

AID - P-58

Subject

USSR/Astronomy

Card

1/1

Authors

: Vorontsov-Vel'yaminov, B. A. and Manova, G. A.

Title

Chart of Galactic Depths

Periodical

Astron. zhur., V. XXXI, 1, 27-30, Ja - F 1954

Abstract

The chart shows the visible and spatial distribution of known super-giants in zone \pm 8 from the galactic equator. Star symbols correspond to distances. The chart is divided in six sections of 600 of galactic longitudes each. The article is based on catalogs and the works of A. Wallenquist, Morgan, R. Trumpler,

K. A. Barkhatova and others. The bibliography

gives 15 references (2 Russian).

Institution: State Astron. Inst. im. P. K. Shternberg

Submitted

June 6, 1953

VCRCMISOV-VEL'YAMINOV, B. A.

Subject

: USSR/Astronomy

Card

: 1/2

Author

: Vorontsov-Vel'yaminov, B. A.

Title

origin of Stars Observed in a Galaxy having a Reverse

AID - P-233

Movement and a Velocity Surpassing the Parabolic

Periodical

: Astron. zhur., v. 31, 2, 161-166, Mr - Ap 1954

Abstract

The article shows that stars and spherical stellar accumulations, with a greater than parabolic velocity or with a movement reverse to the revolution of the Galaxy, might possibly come partially from other galaxies or mostly from the intergalactic stellar plasma, where they originate at various times. In this case a possibility exists of a detailed study of stars representing extra-galactic space. Galaxies should be regarded to a certain extent as being in a state of interchange of matter with the surrounding medium. Ways are shown of further checking this statement. Apparently, galaxies originate in places of the galactic plasma where are formed regions of lowered differential movements of diffused matter.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861010009-5

AID - P-233

Astron. zhur., v. 31, 2, 161-166, Mr - Ap 1954, (additional card)

Card : 2/2

Seven references (after 1945), of which 5 are Russian.

Institution: State Astronomical Institute im. P. K. Shternberg

Submitted : June 1, 1953

VORONTSOV-VEL YAMINOV, Boris-Aleksandrovich; ARMIPOVA, Vera Petrovna; KUKARKIN, B.V., prof., otv.red.; DOKUCHAYEVA, O.D., red.

[Morphological catalog of galaxies. Pt 3. Catalog of 6740 galaxies from + 15° to - 9° of declination]. Morfologicheskii katalog galaktik. Pt. 3. Katalog 6740 galaktik ot + 15° do - 9° skloneniia. [Moskva] Izd-vo Mosk. univ. 1963. 260 p. (Moskva. Universitet. Gosudarstvennyi astronomicheskii institut. Trudy, no.33). (MIRA 17:4)

POFOV, P.I., prof.; VORONTSOV-VEL'YAMINOV, B.A., prof., red.; PONOMAREVA, A.A., tekhn. red.

[Programs of pedagosical institutes; astronomy for physics and mathematics faculties; major: mathematics] Programmy pedagogicheskikh institutov; astronomiia dlia fiziko-matematicheskikh fakul'tetov. Spetsial'nost! - matematika. [Moskva] Uchpedgis, 1955. 6 p. (MIRA 11:9)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i srednikh pedagogicheskikh uchebnykh zavedeniy.

(Astronomy-Study and teaching)

VORONTSOV-VELLYAMINOV, B.A., prof.; KADER, Ya.M., red.; MYASMIKOVA, T.F.
tekhn.red.

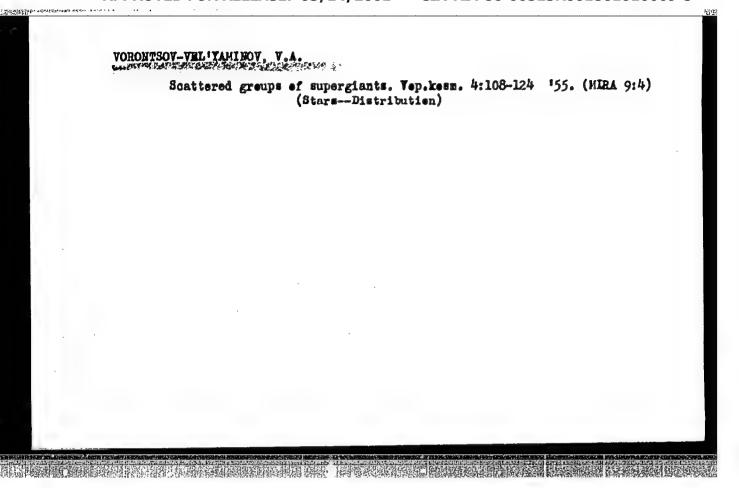
[The origin of celestial bodies] Protekhoshdenie nebesnykh tel.
Moskva, Voen.izd-vo M-va obor. SSSR, 1955. 71 p. (MIRA 11:2)
(Gosmogony)

VORONTSOV. -VEL. YAMINOV. Boris Aleksandrovich; SAMSONNINO, L.V., redaktor;

TUMARKINA, M.A., teknicheskiy redaktor

[Besays on the universe] Ocherki o vselennoi. Ind. 3-e. Moskva,
Gos. ind-vo tekniko-teoret. lit-ry, 1955. 535 p. (MIRA 9:2)

(Cosmogony)



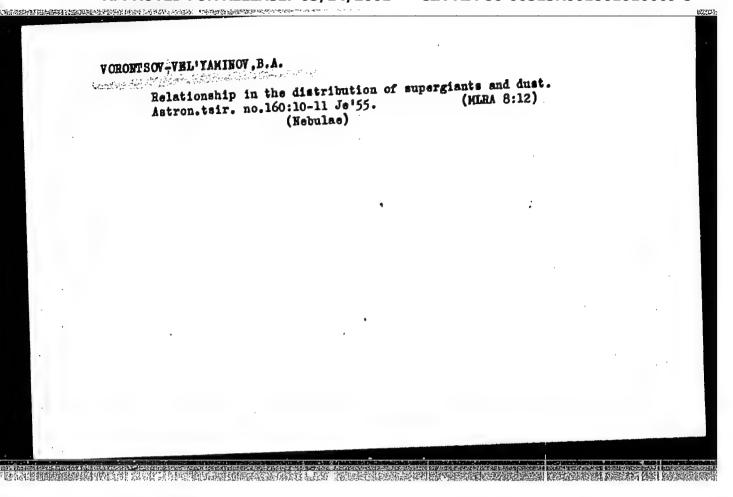
T	he universe.	Hauka i zhizn' 22 no.4:41-46 Ap (Commology)	155. (HIRA 8:6)
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VORONTSOV-VELYAMINOV, B.A.

Distribution of supergiants and dust in M33 and their relation.

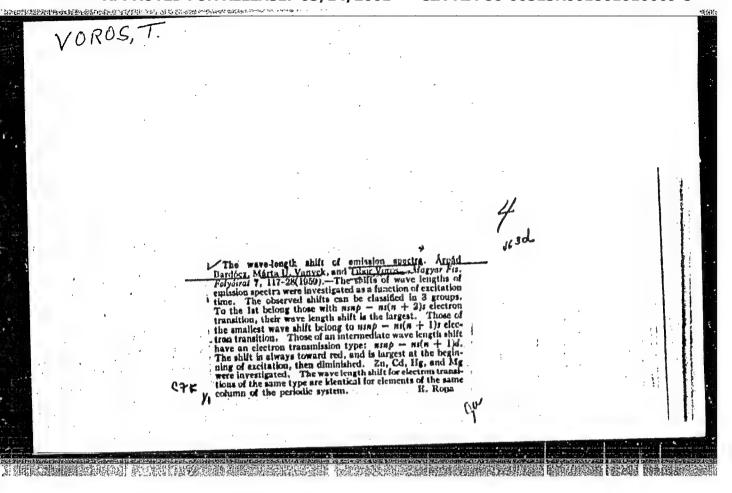
Astron.shur.32 no.5:401-411 S-0 155. (MIRA 9:1)

1.Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga. (Nebulae) (Stars--Distribution) (Interstellar matter)



POPOV, P.I., prof.; VORONTSOV-VEL'IAMINOV, B.A., red.; LAIRNOVA, M.I.,
tekhn, red.

[Programs of pedagogical institutes; astronomy for geography
faculties] Programmy pedagogicheskikh institutov; astronomia
faculties] Programmy pedagogicheskikh uchabnykh zavedeniy
srednikh pedagogicheskikh uchabnykh zavedeniy,
(Astronomy—Study and teaching)



VCROWISOV-VEL'YAMINOV, Boris Aleksandrovich, professor; BROWSHTEN, V.A.,

[Astronomy; a textbook for class 10 of the secondary school]
Astronomia; uchebnik dlia X klassa sredney shkoly. Isd. 10-0e,
perer. i sokrashchen. Noskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956. 143 p. (HLRA 9:9)
(Astronomy)

VORONTSOV-VEL! YAMINOV. Boris Aleksendrovich; PEREL!, Yu.G., redaktor; TUMARKIMA, N.A., tekhnicheskiy redaktor

[Outline history of astronomy in Russia] Ocherki istorii astronomii v Rossii. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 371 p. (Astronomy--History)

VORONTSOV-VEL 'YAMI NOV. B.A.

Spiral structure and the rotation of galaxies. Isv.Astrofis.Inst.
AN Kazakh. SSR 3 no.4:46-52 '56. (MLRA 9:10)

(Milky Way)

VORONTSOV-VEL'YAMINOV B.A.

Morphology of the galaxies. Part. 1: Mucleus of spiral galaxy M33 Astron. zhur. 33 no.1: 14-19 Ja-F 156. (MIRA 9:6)

1.Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga. (Stars--Distribution)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861010009-5"

	xies. Report no.1, part 2: Compact Astron.shur. 33 no.2:205-209 Mr-Ap	156.
1. Gosudarstvenny	r astronomicheskiy institut imeni P.K.	(MIRA 9:8)
Shternberga.	(StarsClusters)	
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VORONTSOV-VEL YAMINOV, B.A.

Distances of planetary nebulae and the evolution of their nuclei [with summary in English]. Astron.zhur.33 no.6:809-816 N-D '56.

1. Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga.
(Nebulae) (Stars--Distance)

VORONTSOV-VELYAMINOV, B. A.

"Galaxies with Broad Emissions in the Spectra of Their Nuclei and Radiogalaxies," paper presented at the Eighth International Congress on Astrophysics, Liege, Belgium, 8-10 July 1957

"Spectrophotometric Temperatures of the Wolf-Rayet Stars," second paper presented at above congress.

YOROHTSOV-VEL'YAMIHOV, Boris Aleksandrovich, professor; RAKHLIN, I.Ye., redaktor; BRUDHO, K.Y., tekhnicheskiy redaktor

[Collection of problems and exercises in astronomy] Sbornik sadach i uprashnenii po astronomii. Izd. 4-ce. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1957. 270 p. (MIRA 10:6)

(Astronomy--Problems, exercises, etc.)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861010009-5"

AUTHOR:

Morontsov-Vel'yaminov, B.A. Morphology of galaxies III.

Diffuse matter in spherical

stellar systems. (Morfologiya galaktik. III. Diffuznaya

materiya v sfericheskikh zvezdnykh sistemakh).

PERIODICAL: Astronomicheskii Zhurnal, 1957, Vol.34, No.1, pp.8-18 (USSR).

ABSTRACT:

TTTLE:

There is a widespread belief that spherical stellar systems are devoid of diffuse matter, and that the latter is characteristic only of plane systems. This belief is critically discussed in the light of published data.

Shklovskii (3) has shown that if the diameter of a globular cluster is about 100 parsecs and the gas density in it about 10^{-23} gm/c.c., then at 100^{0} K the radiation due to neutral hydrogen at $\lambda = 21$ cm would be similar to that in the direction of the collectic contrast. in the direction of the galactic centre. It is improbable that within such clusters the gas density is higher by one order than the density within the galactic spiral branches. Mills (2) has reported a negative result using 3.5 m waves.

The presence of gas of density of the order of 10^{-24} gm/c.c. (cf. average density in the solar vicinity) could not be detected from absorption lines in the stellar spectra owing to the small extent of the clusters. It is concluded that the possible and existing methods of observation can neither prove nor exclude the presence of diffuse matter in globular If such matter does exist there are no pronounced inhomogeneities in its distribution.

Morphology of galaxies III. Diffuse matter in spherical stellar systems (Cont.)

There is definite evidence for the existence of diffuse matter in elliptical galaxies. According to Page (5), gas emission lines may be observed in 62% of the 16 elliptical galaxies of type E which he studied. In our own galaxy the galaxies of type E which he studied. In our own galaxy the luminosity of the interstellar gas is due (with some luminosity of the interstellar gas is due (with some luminosity of hot blue giants are known in elliptical about a dozen of hot blue giants are known in elliptical companions of M31 in NGC 205 and NGC 185. Nothing is known about the presence of hot giants in other elliptical galaxies. One may conjecture that the absence of bright lines in 38% One may conjecture that the absence of bright lines in 38% One may conjecture that the absence of bright lines in 38% One may conjecture that the absence of bright lines in 38% One may conjecture that the absence of bright lines in 38% One may conjecture that the absence of bright lines in 38% One may conjecture that the absence of bright lines in 38% One may conjecture that the absence of bright lines in 38% One may conjecture that the absence of sufficiently hot stars. Thus matter but to the absence of sufficiently hot stars. Thus diffuse matter is all elliptical galaxies. In the spherical radiogalaxies NGC 4486 and 5128 gas radiation is considerable. U.V. photographs of the companions of M31 is considerable. U.V. photographs of the companions of M31 is considerable. U.V. photographs of the companions of this gigantic show that out of four elliptical companions of this gigantic spiral, two contain dust clouds (6, 7). It is estimated that the mass of diffuse matter in NGC 205 is probably of the order of 107 M6, and possibly 105 M6. Since the mass of the order of 108 M6, the fraction of the total mass which is due to diffuse matter, is similar to that in the spiral branches of our own galaxy.

At a distance of 7° from M31 there is a pair of weak elliptical galaxies, NGC 147 and 185. The former is free

Morphology of galaxies III. Diffuse matter in spherical stellar systems (Cont.)

from dust Baade (6), while the latter has a well defined dust cloud of 8 x 30 parsecs at a distance of 50 parsecs from the centre. After the radiogalaxies NGC 5128 and 1316, in the middle of the system consisting of type II population, there is the elliptical galaxy NGC 5195 (companion of M 51) which is rich in dark matter. It is pointed out that double galaxies such as M51, where the spiral arm of one galaxy join's it directly to the smaller galaxy (Fig.2), are not exceptional. NGC 4485 - 90, NGC 5278 - 9, and possibly NGC 7678 all have this property. "Analytical photographs" of Zwicky (14) show that the main mass cf stars in NGC 5195 have the same nature as the nucleus of M 51 itself, i.e. it consists of stars of population II. The spectrum of NGC 5195 contains (5) the emission lines H $_{\rm B}$ - H $_{\rm S}$. It is possible that in the integral spectrum, stellar absorption lines mask the weaker gas emission lines H $_{\rm B}$ - H $_{\rm S}$. It is possible that in the integral spectrum, stellar absorption lines mask the weaker gas emission lines H $_{\rm B}$ - H $_{\rm S}$ caused by a small number of hot stars in the central part of NGC 5195. The latter is similar to NGC 205 in that, while it contains a considerable amount of dust, it shows traces of formation of spiral branches. Both of them belong to a new type, intermediate between the elliptical and the spiral. It is conjectured that the formation of spiral branches begins when dust (together with cold gas) appears in elliptical galaxies.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861010009-5"

Morphology of galaxies III. Diffuse matter in spherical stellar systems (Cont.).

The degree of their development probably depends on the amount of diffuse matter in the nucleus, and this may be taken as proportional to the volume of the nucleus. The presence of dust in elliptical galaxies and the nuclei of spirals is best seen in U.V. photographs.

There are indications of radial motion of dust in NGC 5195 and in the nuclei of spirals. They support the hypothesis that, given a sufficient amount of diffuse matter, its flow down the magnetic lines of force causes the formation of spiral branches.

In the case of spherical stellar systems evidence for the motion of diffuse matter from the centre to the periphery tends to suggest that this matter is present in stellar systems to start with, and does not accumulate at a subsequent time. 2 Figures, including photographs. 17 references, 3 of which are Russian.

State Astronomical Institute imeni P. K. Shternberg.

Recd. July 26, 1956.

VORONTSOV-VELIYAMINOV, B.A.
P. 2-73

sov/3405 PHASE I BOOK EXPLOITATION

Soveshchaniye po voprosam kosmogonii. 6th, Moscow, 1957

Vnegalakticheskaya astronomiya 1 kosmologiya; trudy soveshchaniya (Extragalactic Astronomy and Cosmology; Transactions of the 6th Conference on Problems of Cosmogony, June 5-7, 1957) Moscow, AN SSSR, 1959. 273 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR.

Ed. of Publishing House: L.V. Samsonenko; Tech. Ed.: G.N. Shevchenko; Editorial Board: D.A. Frank-Kamenetskiy (Resp. Ed.) Professor; B.A. Vorontsov-Vel'yaminov, Corresponding-Member.

The book is intended for astronomers and physicists studying PURPOSE: problems of general cosmology.

COVERAGE: The book is a collection of papers on cosmogony read by scientists participating in a conference held in Moscow on June 5-7, 1957. The papers review recent observational and theoretical work in extragalactic astronomy, gravitational theory, theory of relativity, red shift, radio astronomy, formation of chemical card 1/8

SOV/3405 Extragalactic Astronomy (Cont.) elements, thermodynamics of the universe, entropy, etc. No personalities are mentioned. There are references following most of the reports. TABLE OF CONTENTS: 3 Foreword MORNING SESSION OF JUNE 5, 1957 DATA ON EXTRAGALACTIC ASTRONOMY AS A BASIS FOR THE STRUCTURE OF COSMOLOGICAL THEORY Ambartsumyan, V.A. Some Data on Extragalactic Astronomy 5 Vorontsov-Vel'yaminov, B.A. Interaction of Galaxies 19 41 Kobushkin, P.K. Public Address 44 Agekyan, T.A. Structure of the Metagalaxy Card 2/8

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Extragalactic Astronomy (Cont.)

SOV/3405

Idlis, G.M. Structural Infinity of the Universe and the Metagalaxy, as a Typical Populated Cosmic System (Summary of Report)

270

AVAILABLE: Library of Congress

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TM/mg

Talls of Arend-Roland's comet. Astron.tslr. no.180:6-7
My '57. (MRA 13:4)

YORONTSOV-VELLYAMINOV. B.A.; DOKUCHAYEVA, O.D.; YEFREMOV, Yu.I.;
KOZARENKO, B.T.; KARIMOVA, D.K.; KOSTYAKOVA, Ye.B.; LOZINSKIY, A.H.;
MANOVA, C.A.; TSITSIN, F.A.; SHAROV, A.S.

Observations of Arend-Roland's comet (1956 h). Astron.tsir. no.180:2-4 My '57. (MIRA 13:4)

1. Gosudaratvennyy astronomicheskiy institut im. P.K.Shermberga. Moskva.

(Comets--1956)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861010009-5"

VORONTSOV-VELYAMINOV, B.A.

Unusual interpenetrating galaxies MGC 4676. Astron.tsir. no.178:19-21
Mr '57. (Stars-Clusters)

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	Sponsoring Agency: Akademiya nauk SSSR. Astronomicheskiy se	met.	
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VORONTSOV-VEL'YAMINOV, Boris Aleksandrovich, prof.; LAVROVSKIY, K.F., red.; TSIRUL'NITSKIY, N.P., tekhn. red.

[Astronomy; textbook for grade 10 high-school students] Astronomia; uchebnik dlia X klassa srednei shkoly. Izd.12 Mosky, Uchpedgiz, 1958. 143 p.

(Astronomy)

3(1) AUTHOR:

_ Vorontsov - Vel'yaminov, B.A.

SOV/33-35-2-3/21

TITLE:

Radio-Galaxies and Galaxies With Broad Emissions in the Spectra. Morphology of Galaxies. IV (Radiogalaktiki i galaktiki s shirokimi emissiyami v spektre. Morfologiya galaktik. IV.)

PERIODICAL: Astronomicheskiy zhurnal, 1958, Vol 35, Nr 2, pp 208-217 (USSR)

ABSTRACT:

The author describes galaxies with a broad emission in their nuclear spectrum and compares them with radio galaxies. A great part of the paper has a polemic character and is directed against the opinions of Baade and Minkovski Ref 3,8 . The author has the opinion that the radio galaxies NGC 1316, 5128 and probably also Cygnus A all belong to the same class and that they are no galaxies in collision. He puts the question whether all radio galaxies are of the same type (giant ellipsoidal galaxies), where we observe a part of them "from above" and the other part "from the side". The paper contains

Card 1/2

Radio-Galaxies and Galaxies With Broad Emissions in the Spectra. Morphology of Galaxies. IV

sov/33-35-2-3/21

four points altogether: 1. Galaxies with a broad emission in the spectrum; 2. Spectra of radio galaxies; 3. The interpretation of galaxies; 4. Gas mass in the nuclei of galaxies.

There are 19 references, 5 of which are Soviet, 1 English, and 13 American.

ASSOCIATION: Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga (State Astronomical Institute imeni P.K. Shternberg)

SUBMITTED: May 10, 1957

Card 2/2

VORONTSOV- VEL'YAMINOV, B.A.

7 3(1)

PHASE I BOOK EXPLOITATION

sov/1968

Popov, Pavel Ivanovich, Kosntantin L'vovich Bayev, Boris Aleksandrovich Voron Bov-Vel 'yaminov, and Rostislav Vladimirovich Kunitskiy

Astronomiya; uchebnik dlya fiziko-matematicheskikh fakulitetov pedaronomiya; ucnebnik diya riziko-matematicneskikh rakui tetov peda-gogicheskikh institutov (Astronomy; a Textbook for Physics and Math-ematics Faculties of Pedagogical Institutes). 4th ed., rev. Moscow, Uchpedgiz, 1958, 461 p. 16,000 copiss printed.

Ed. (Title page); P.I. Popov; Ed. (Inside book); S.A. Shorygin; Tech. Ed.: N.P. Tsirul'nitskiy.

PURPOSE: This book, a manual on general astronomy, is intended for students and teachers. It is particularly useful in dealing with the practical aspects of astronomy.

COVERAGE: This book represents the fourth edition of the work and has been rewritten along lines proposed by its users and on the

Card 1/18

Astronomy; a Textbook for Physics (Cont.)

SOV/1968

basis of new findings in the field. This edition of the book was subjected to a complete reexamination by the Educational-Methodological Section of the Central Council of the All-Union Astronomical Geodetic Society and the Moscow Astronomical Section on the basis of reports by Corresponding Member of the AS, USSR, P. Rarenago and the chairman of the Astronomical Section P.I. Bakulin. Further advice on improving the work were received from Professors K.A. Kulikov, Eynasto, and O.V. Golubeva. This edition of the work has been made more compact than its predecessors. Material which might be found in related fields has been omitted, as has purely descriptive material which has now been made available in popular science type booklets. The book includes material on celestial mechanics, astrophysics, cosmogony, and astrometry. There are 150 Soviet references.

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Foreword to the 4th Edition

Card 2/18

3(1) AUTHOR:

Vorontsoy - Vel'yaminov, B.A.

307/33-35-6-5/18

TITLE:

The Interaction of Galaxies and the Nature of Their Arms,

Spanning Filaments and Tails

PERIODICAL:

Astronomicheskiy zhurnal, 1958, Vol 35, Nr 6,

pp 858 - 868 (USSR)

ABSTRACT:

The author presents a detailed description of the forms of interaction of 500 interacting and interpenetrating galaxies which have been taken from the Palomar Sky Atlas. The structure of their spanning filament and tails is investicated; they consist mainly of hot stars mixed with some gases. In most cases the interaction take place in form of decay of the fronts of the interacting sides of the galaxies. The cases of attraction of spiral arms by disturbing galaxies are relatively rare. The author deals in particular with groups of galaxies in a common atmosphere and presents some arguments which are to prove his opinion that these galaxies are of common origin and not the results of occasional collisions. He then treats the origin of the different forms of arms and tails. The interpretation of V.A. Ambartsumyan concerning trapezoidal galaxies is approved

Card 1/2

The Interaction of Galaxies and the Nature of . SOY/33-35-6-5/18 Their Arms, Spanning Filaments and Tails

by the author.

A catalogue and an atlas of 500 interacting galaxies is in preparation. The author refers to the new photographies of interacting galaxies reproduced in the Proceedings of the VI Cosmogonic Conference, Moscow 1957.

There are 11 references, 4 of which are Soviet, 4 American, 1 English, 1 German, and 1 Swedish.

ASSOCIATION: Gosudarstvennyy astronomicheskiy institut imeni P.K.

Shternberga (State Astronomical Institute imeni P.K.

Shternberg)

SUBMITTED: March 22, 1958

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PHASE I BOOK EXPLOITATION

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- · Vorontsov-Vel'yaminov, Boris Aleksandrovich, Corresponding Member, USSR Academy of Pedagogical Sciences
 - Dostizheniya sovetskoy astronomii (Achievements of Soviet Astronomy) Moscow, Izdvo "Znaniye", 1958. 31 p. (Series: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy. Seriya VIII, 1958, vyp. II, no. 13) 35,000 copies printed.
 - Sponsoring Agency: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy.
 - Ed.: Leykin, G.A.; Tech. Ed.: Berlov, A.P.
 - PURPOSE: This is the transcript of a public lecture delivered in Moscow in 1958.
 - COVERAGE: The lecturer reviews in popular terms the advancement and achievements of Soviet astronomy. Touching only briefly on the past work of Russian astronomers, he refers to practical problems of astronomy including the computation of trajectories for future travels to moon, the study of planets and comets, and to research in solar problems. The review covers the fields of variable and

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"nova" stars, nebulae, the structur tial bodies, and discusses the new There are no references.	e of the universe and the cinstruments available to Sc	origin of cele viet scientis	its.
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sov/35-59-9-6862

Translation from: Referativnyy zhurnal, Astronomiya 1 Geodeziya, 1959, Nr 9, pp 3 - 4 (USSR)

AUTHOR:

Vorontsov-Vel'yaminov, B.A.

TITLE:

The Conference on the Physics of Planetary Nebulae, Leningrad, February

3 - 4; 1957

PERIODICAL:

V sb.: Vopr. kosmogonii, Vol 6, Moscow, AS USSR, 1958, pp 354 - 358

ABSTRACT:

Here follows a brief account of the Conference that took place in Leningrad on February 3 - 4, 1957, on the physics of planetary nebulae. The following lectures were heard: On certain problems in the physics of planetary nebulae, by V.V. Sobolev; the lecture delivered by A.Ya. Kipper and V.M. Tiyt was concerned with a detailed revision of the question on the dispersion of light quanta in connection with the problem of the origin of the continuous spectrum of the nebulae; on the magnetic fields in planetary nebulae and the origin of the latter by G.A. Gurzadyan; on the results of the calculations made by the lecturer in connection with the hypothesis on the formation of shells of planetary nebulae as a result of the action of a shock (for example, the ionization wave, by S.A. Kaplan;

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sov/35-59-9-6862

The Conference on the Physics of Planetary Nebulae, Leningrad, February 3 - 4, 1957

on calculations relating to the model of the cold, spherical gaseous medium which fills the whole Galaxy by S.B. Pikel'ner and I.S. Shklovskiy; on the hypothesis, developed by the lecturer, concerning the formation of shells of planetary nebulae by way of their quiet separation from the atmospheres of the red giants of the RV Tau type by I.S. Shklovskiy; B.A. Vorontsov-Vol'vaminov made a series of critical remarks in connection with the nypothesis by 1.S. Shklovskiy; both F.P. Parenago and V.V. Sobolev pointed out a number of difficulties encountered by Shklovskiy's hypothesis; N.A. Razmadze's report was devoted to photocolorimetric observations on the basis of which he drew a conclusion concerning the great dispersion of the masses of planetary-nebula shells; Gulak reported on the study of the isophotes of a series of nebulae in order to define more accurately the distribution of densities in them; I.N. Minin gave an account of a joint examination of the dynamics and the field of the A-radiation.

G.A. Manova

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Card 2/2

PHASE I BOOK EXPLOITATION

SOV/1793

Vorontsov-Vel'yaminov, Boris Aleksandrovich, Professor

(Origin of Celestial Bodies) Moscow, SSSR, 1958. 128 p. (Series: Nauchno-Proiskhozhdeniye nebesnykh tel Number of copies printed not given. Voyen. izd-vo M-va obor, populyarnaya biblioteka)

Ed.: Ya. M. Kader; Tech. Ed.: N.P. Mezheritskaya.

PURPOSE: This booklet is intended for the general reader.

COVERAGE: This popular science type booklet discusses various theories ERAGE: This popular science type bookiet discusses various theorien on the origin of the universe. It compares theories based on lastest scientific findings with those of former years based on pure speculation. It treats briefly the various celestial bodies and the instruments used to study them. Sketches and photographs accompany the text. No references are given.

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N/5 612 .772 1958

Vorontsov-Vel'yaminov, Boris Aleksandrovich

Astronomiya; uchebnik dlya 10. klassa sredney shkoly [Astronomy; textbook for the tenth grade of secondary school] Izd.12. Moskva, Uchpedgiz, 1958.

143 p. illus., diagrs., maps, tables. Bibliographical footnotes.

VORONTSOV-VEL'YAMINOU, B.H.

3(1) PHASE I BO

PHASE I BOOK EXPLOITATION

SOV/1840

· Vsesoyuznoye astronomo-geodezicheskoye obshchestvo

- Astronomicheskiy kalendar; yezhegodnik. Peremennaya chast'; 1959 (Astronomical Calendar; Yearbook. Variable Part; 1959) Moscow, Fizmatgiz, 1958. 370 p. 8,500 copies printed.
- Ed.: I.Ye. Rakhlin; Tech. Ed.: S.N. Akhlamov; Editorial Board: P.I. Bakulin (Resp. ed.), S.G. Kulagin, A.G. Masevich, and P.P. Parenago.
- PURPOSE: This astronomical calendar is intended for specialists in astronomy, astrophysics, and geophysics.
- COVERAGE: The book is divided into two parts. The first, based on data taken from the USSR Astronomical Yearbook for 1959, consists of ephemerides and accompanying text, compiled and written by the following specialists: S.G. Kulagin and L.D. Kovbasyuk of the GAGO (State Astronomical and Geodetical Society) notes on ephemerides, the ephemerides of the Sun and Moon; M.M. Dogayev of the MOVAGO (Moscow Branch of the All-Union Astronomical and Geodetic Society) text and maps of the visible trajectories of the planets, text and maps of eclipses, the physical coordinates Card 1/10

Astronomical Calendar; Yearbook. Variable Part; 1959 SOV/1840

of the Sun, Moon, Mars, and Jupiter, the satellites of Jupiter and Saturn; N.D. Rozenblyum (MOVAGO) - emphemerides and heliocentric longitudes of planets; I.F. Yegorchenko, A.A. Kaverin, T.G. Konstantinova, V.A. Kuklina, G.V. Kuklin, Z.G. Sazonova, L.I. Chernykh, and N.S. Chernykh - data on 144 points in the USSR for the full solar eclipse of October 2, 1959; Ye.G. Demidovich (GAGO) - occultation of the stars and planets by the Moon, observation of the Polar Star, computation of stellar coordinates; V.A. Bronshteyn (MOVAGO) - comets; N.S. Yakhontova - the lesser planets; and, N.B. Perova (MOVAGO) - variable stars. The second part, the Supplement, contains a review of the achievements in astronomy for the years 1956 and 1957, written by V.A. Bronshteyn, O.D. Dokuchayeva, L.A. Katasev, M.A. Klyakotko, P.P. Parenago, and I.S. Shcherbina-Samoylova under the editorship of A.G. Masevich, articles on artificial satellites, the danger in astronautics from meteors, the nature of galaxies, articles on scientific meetings held in the Soviet Union and abroad, and articles on the anniversaries of events in astronomy. The book is profusely illustrated with tables, maps, photographs, and diagrams. The Supplement includes some 125 Soviet references grouped according to subject matter and type of publication.

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PART II. SUPPLEMENTS	
Advances in Astronomy in the Years 1956 and 1957 This article discusses the observatory studies made on solar activity, the structure and temperature of the solar activity, the structure and temperature of the sphere, the exterior of the solar corona, studies constant the Crimean Astrophysical Observatory, large-scale turbulent motions in the Sun's photosphere, studies of Sun's general and localized magnetic fields, the stars	ducted and f the
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including the variable ones, the spiral structure of the Galaxy, the Sun, the planets, comets, the Moon's atmosphere, the nature of Venus and Mars, and the meteors.

Artificial Satellites of the Earth and the Danger in Astronautics Prom Meteors (V.V. Fedynskiy)

The author reports mainly on studies of cosmic rays, the Sun's corpuscular radiation, micrometeorites (recorded by means of ammonium-phosphate piezoelectric counters) and the annual distribution of micrometeorites and their tentative quantities.

The Mrkos Comet (1957 d) (F.Yu. Zigel')

208

This article discusses the Mrkos Comet which was discovered on August 3, 1958. The comet's parabolic orbital elements are computed and the comet photographed. Observed by several Soviet astronomers its study provided much new material.

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Noctilucent Clouds in 1957 (N.I. Grishin)

214

Stereotriangulation methods for determining the height of clouds are described.

Interaction and Nature of Galaxies (B.A. Vorontsov-Vel'yaminov) 231
This article treats galactic bodies, tails, the units bridging them, and also double and multiple galaxies.

Soviet Astronomers in the United States of America (A.G. Masevich) 243

This article describes the June-July 1957 visit of a Soviet delegation of astronomers, headed by V.A. Ambartsumyan, to the United States.

The Eighth International Astronautical Congress (A.G. Masevich) 263
This article describes the Astronautical Congress held
October 12, 1957 in Barcelona.

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int Visiting Session of the Astronomical Council of the SR and the Academy of Sciences of the Azerbaydzhan SSI.A. Klyakotko)	271
This article treats the meeting at which M.M. Aliyev A.A. Mikhaylov, A.A. Yakovkin, S.K. Vsekhsvyatskiy, V.V. Sharonov, V.P. Shcheglov, Z.I. Khalilov, V.A. Kand G.F. Sultanov participated.	
ne 350th Anniversary of the Formulation of Keppler's F no Laws (Yu.A. Ryabov) This article is a historical account and discussion Keppler's first two Laws.	,
ne 85th Anniversary of the Tashkent Astronomical Observ.P. Sheglov) The article provides a detailed historical account a description of the Tashkent Astronomical Observatory the Academy of Sciences of the Uzbek SSR, the oldest tific research institution in Central Asia. The Observat 7/10	nd r of ; scien-

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maintains its own meteorological station, a Time Station which provides 17 time signals in 24 hours, a Solar Laboratory which conducts systematic studies of the Sun's chromospheric flares on the basis of spectroscopic and photometric observations (Yu.M. Slonim, Chief, and K.F. Kuleshova, Z.B. Korobova, and B.N. Tirnshteyn, staff members), and a network of meteorological and other research stations. Of particular interest is the Kitaba International Latitude Station imeni Ulugbek situated 3 km, from the town of Kitaba in the Kashka-Dar'inskaya oblast'. Administered by the Observatory since 1941, the Station has conducted regular observations since 1930. Its staff members include A.M. Kalmykov, Director, D.I. Kravtsev, scientist; and P.V. Shcheglov and V.S. Obraztsov, laboratory assistants. zenith-telescope APM-2 was installed there in June 1958. In 1932 the Observatory came under the jurisdiction of the Committee on Science of the Central Executive Committee of the Uzbek SSR, since which time it has engaged in a program of research in exact time determination, solar activity, and meridian and photographic astronomy. It had been conducting regular observations of sun spots and solar protuberances since 1932. The Observatory's staff includes M.F. Bykov, who completed the work begun in 1945 of determining the direct ascension of weak stars by the absolute

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method; Kh.R. Shakirova, B.V. Yasevich, and A. Kadyrov, who made thorough studies with two passage instruments of personal and instrument errors; V.P. Shcheglov, V.T. Beda, B.Zh. Bal'zhinova, B.V. Yasevich, N.A. Omelina, L.N. Koshkina, M.G. L'vova, and G.I. Kazakov, who, in cooperation with IGY program, engaged in daily determinations of time corrections on two passage instruments and in the reception of a large number of rhythmia signals, V.A. Mal'tsev and N.N. Sytinskaya - observation of meteors; A.A. Latypov, I.M. Ishchenko, and G. Kim - regular photographic observations of the Earth's artificial satellites; F.G. Ustimenko, Chief Mechanical Engineer, and Ye.P. Kolesnikova, Head Librarian. Some of the newer equipment possessed by the Observatory include: a passage instrument APM-10, new printing chromographs, radio reception and measurement apparatus, two sets of quartz clocks obtained in 1958, a normal astrograph, a meridian circle, a zenith-telescope APM-2 set up in 1957, a solar protuberance spectroscope (obtained 1932), a standard spectrohelioscope (obtained 1935), a

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Astronomical Calendar; Yearbook. Variable Part; 1959 SOV/1840 chromosphere-photosphere telescope, a celostat with a clock mechanism for spectrohelioscope, and a microphotometer MF-4. The Tashkent Astronomical Observatory (TAO) published its own Trudy, a Byulleten', and Circulars, The 70th Anniversary of the Gor'kiy Division of the All-Union Astronomical-Geodetical Society (S.G. Kulagin) 315 Anniversary of Soviet and World Astronomy in 1959 (Yu.G. Perel') 325 The article treats briefly the Committee on Solar Research of the Academy of Sciences, USSR. The Tenth International Astronomical Meeting in Moscow (D.Ya. Martynov) 350 Bibliography (Yu.G. Perel') 362 AVAILABLE: Library of Congress Card 10/10 MM/ad

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VORONTSOV-VEL'YANINOV BARRIES Of planetary nebulae. Vop.kosu. 6:354-358
Conference on the physics of planetary nebulae. Vop.kosu. 6:354-358
(NERA 11:10)
(Nebulae)

VORONTSOV-VEL YAMIHOV, B.A.

Radio galaxies and galaxies with broad emissions in the spectra (_ their nuclei; morphology of galaxies. Part 4. [with summary in English]. Astron. zhur. 35 no.2:208-217 Mr-Ap '58. (MIRA 11:6)

1. Gosudarstvennyy astronomicheskiy institut im. P. I. Shternberga. (Radio astronomy) (Stars-Distribution)

AUTHOR:

Vorontacy - Velivaninov B. A.

33-35-3-22/27

TITLE:

Review of the Book "Vistas in Astronomy", Edited by A. Beer. Pergamon-Press. London - New York (Retsenziya knigi "Perspektivy astronomii", shornik pod rechktsiyey Beera. London - N'yu-

York. Izdatel'stvo Pergamon Press, 1955-56)

PERIODICAL: Astronomicheskiy zhurnal, 1958, Vol 35, Nr 3,pp 496-498 (USSR)

ABSTRACT:

The well-known Soviet astronomer Vorontsov-Vel'yaminov welcomes the volume as an important event in the international astronomical literature and he especially praises the inter-

national mind of the preface of Beer. He regrets the disproportionally large part of historical articles (compared with the lew

papers on celestial mechanics and astrometry) and the very

high price of the book.

SUBMITTED:

April 2, 1958

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3. 1570
Translation from: Referativnyy zhurnal, Astronomiya 1 Geodeziya, 1959, Nr 8, p 34

AUTHOR:

Vorontsov-Vel'yaminov, B.A.

1

TITLE:

First Results of Studying Interacting Galaxies

PERIODICAL:

Astron. tsirkulyar, 1958, May 26, Nr 192, pp 15 - 16

ABSTRACT:

About 500 pairs of galaxies were found in the Palomar Atlas, which the author named interacting galaxies. Criteria of interacting galaxies are as follows: 1) Galaxies in a common haze composed of stars; 2) Galaxies connected by bridges; haze composed of stars; 2) Galaxies connected by bridges; 3) Galaxies which are in a state of visual interpenetration, and 4) Galaxies whose shapes are distorted by the effect of the other. A preliminary study of collected data permits the other. A preliminary study of collected data permits the following conclusions to be drawn: Interacting galaxies have a common origin; visual manifestations of their interaction (bridges, tails) can not arise as a result of conventional gravitational tides; the nature and origin of spiral arms,

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First Results of Studying Interacting Galaxies

bridges and tails are akin and hardly are a result of the flow of gases along the lines of a magnetic field. The totality of the facts testifies in favor of the assumption that galaxies which are interacting macroscopically possess some properties in addition to the gravitational action of their constituent stars.



N.P. Kukarkina

Card 2/2

VORONTSOV-VEL'YAMINOV. Boris Aleksandrovich [Astronomy: a textbook for the 10th grade in secondary schools] Astronomia: pidruchnyk dlia 10 klasu seredn'oi shkoly. Vyd.12. Kyiv, Radians'ka shkola, 1958. 138 p. (MIRA 13:8) (Astronomy)

VORONTSOV-VEL YAMIHOV. B.A.

First results of studying interactive galaxies. Astron.tsir. no.192:15-16 My 158. (MIRA 11:10)

1.Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga, Moskva.

(Galaxies)

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PHASE I BOOK EXPLOITATION 80V/3717

Vorentzov-Vel'yaminov, Boris Aleksandrovich

Ocherki o Vselennoy (Features of the Universe) 4th ed. Moscow, Fizmatgiz, 1959. 532 p. 21,000 copies printed.

Ed.: L.V. Samsonenko; Tech. Ed.: K.F. Brudno.

PURPOSE: The book is intended for readers interested in astronomy.

COVERAGE: This book is a popular presentation of the present state of knowledge of the universe. In Part I, the author describes the solar system. Part II deals with stars, galaxies and nebulae. Fundamentals of radio astronomy and cosmogony are outlined. Photographs of observatories and astronomical instruments have been included. The author thanks Professor D.Ya. Martynov. There are no references.

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